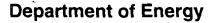
TRANSMITTAL OF AMENDMENT TO THE OPERABLE UNIT 1 REMEDIAL DESIGN PRE-FINAL DESIGN PACKAGES I AND II, SITE IMPROVEMENT PLAN, MARCH 1996

06/13/96

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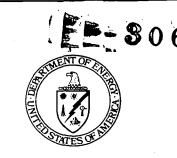


Ohio Field Office Fernald Area Office

P. O. Box 538705 Cincinnati, Ohio 45253-8705 (513) 648-3155

JUN 1 3 1996

DOE-1021-96



Mr. James A. Saric, Remedial Project Director U.S. Environmental Protection Agency Region V - SRF-5J 77 West Jackson Boulevard Chicago, Illinois 60604-3590

Mr. Tom Schneider, Project Manager Ohio Environmental Protection Agency 401 East 5th Street Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF AMENDMENT TO THE OPERABLE UNIT 1 REMEDIAL DESIGN PRE-FINAL DESIGN PACKAGES I AND II, SITE IMPROVEMENT PLAN, MARCH 1996

This letter transmits the amendment to the Operable Unit 1 (OU1) Remedial Design Site Improvement Plan as discussed in a meeting on June 11, 1996. The purpose of the amendment is to present revised design plans for activities that support on-site rail improvements and construction of the OU1 plant facility. The implementation of these design modifications will minimize the use of clean site material for OU1 structural fill.

As you are aware, the field activities for the OU1 site improvement plan are ongoing. An expedited review by the U.S. Environmental Protection Agency (U.S. EPA) and Ohio Environmental Protection Agency (OEPA) prior to July 3, 1996, would provide sufficient time for preparing the stockpile area, installation of stormwater management controls, and would allow for maximum utilization of construction, personnel, and equipment.

As discussed on Page 5 of the enclosed narrative, two locations were included in the Operable Unit 5 (OU5) Remedial Investigation which were above the Waste Acceptance Criteria (WAC) of 1030 ppm (total uranium). Only one of these sample locations falls within the north railyard area. This area will be removed and placed with other soil and debris from the OU1 preparation activities that will be addressed in the OU1 remediation facility.

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Page 2

If you should have any questions, please contact Dave Lojek at (513) 648-3127.

Sincerely,

Johnny W. Reising

Fernald Remedial Action

Project Manager

FN:Lojek

Enclosures: As Stated

cc w/encs:

R. L. Nace, EM-423/GTN

G. Jablonowski, USEPA-V, 5HRE-8J Manager, TPSS/DERR, OEPA-Columbus

T. Schneider, OEPA-Dayton (3 copies of encs.)

F. Bell, ATSDR

D. S. Ward, GeoTrans

R. Vandegrift, ODOH

S. McLellan, PRC

T. Hagen, FERMCO/65-2

J. Harmon, FERMCO/90

AR Coordinator/78

cc w/o encs:

C. Little, FERMCO/2

AMENDMENT TO THE OU1 REMEDIAL DESIGN PRE-FINAL DESIGN PACKAGES, I AND II SITE IMPROVEMENT PLAN MARCH 1996

1.0 INTRODUCTION

1.1 Purpose and Scope

The purpose of this Amendment to the Operable Unit 1 (OU1) Remedial Design Pre-Final Design Packages, I and II, is to present revised design plans for activities that support on-site rail improvements and construction of the OU1 plant facility. This Amendment affects the Site Improvement Plan portion of the design and includes:

- An explanation for the amendment,
- A description of affected areas, and
- Identification of activities and schedule included in this amendment.

1.2 Explanation for Amendment

The OU1 pre-final design was submitted to U.S. EPA/Ohio EPA in March 1996. The Site Improvement Plan, Description of Site Preparation Activities, was included in the pre-final design submittal. The Site Improvement Plan (SIP) addressed a number of site preparation activities necessary for construction of OU1 remedial facilities and support facilities such as the on-site rail improvements (primarily the north railyard area). The SIP identified a need for approximately 28,000 cubic yards (cyd) of soil borrow for construction of the plant facility; and additional soil borrow required for the on-site rail improvements. The SIP provided a drawing of the borrow area location where this soil borrow was to be obtained.

In the SIP, Description of On-Site Rail Improvements, initial construction activities for the north railyard were identified, including stripping 6 inches of soil from the area (approximately 23 acres) and stockpiling that soil for future OSDF disposal. The SIP also stated that stripping of the area would be required as part of the overall OU5 soil remediation effort; additional soil beyond the 6 inches that needed to be stripped, as a result of real time monitoring would also be stockpiled; and management of the stockpiled material would be described in the Remedial Action Work Plan for the Soil Remediation Project (SRP), Area I, Phase I (RAWP, Area I, Phase I). Construction of the north railyard was to begin in October 1996.

The SIP also stated that drawings, expected to be issued in late March 1996, would update the design relative to value engineering studies. As a result of the value engineering studies, the revised on-site rail improvements design (primarily, the north railyard area) was capable of producing an excess of 23,000 cyd of soil that could be used as fill. With a need of 28,000 cyd of soil borrow required for plant facility construction, a net need of 5,000 cyd of soil borrow is needed for the plant facility site improvement.

Originally, and as indicated to EPA in the OU1 pre-final design package, borrow fill was to be taken from a borrow area located north of Waste Pit 5. Subsequent progress on the engineering design for the proposed north railyard has concluded that there is 5,000 cyd additional soils that may be removed from the area surrounding the railyard. This amount of material would satisfy the need for the plant facility site improvement requirements. Taking this borrow from the railyard area avoids the need to open a new source of borrow material north of Pit 5.

Additionally, it is imperative to continue work in the railyard area to allow continued utilization of equipment (scrapers) which are currently on-site. If the equipment is sent back to the respective owners it may not be available for construction of the railyard this year.

As a result of the excess soil borrow identification and to facilitate ongoing infrastructure development for OU1, OU1 proposes to assume in advance, a portion of the work scheduled for SRP. This work involves:

- 1) Stripping of the topsoil (i.e., the surficial 6 inches) from the Areas D north and south and B southwest, see attached Figure 2-1.
- 2) Placement of this topsoil in the stockpile, see attached Area 1 Phase 1 (West) Remedial Action Project plan and detail sheets.
- 3) Management of runoff from the west and east impacted soil stockpiles.

Accordingly, this amendment revises the original design plan to address:

- (1) Construction and handling of the soil stockpile resulting from stripping topsoil from the north railyard area, and
- (2) Utilizing excess soil from the north railyard construction for the OU1 plant facility.

2.0 DESCRIPTION OF AFFECTED AREAS

On-site Rail Improvement

The on-site rail improvement consists of the construction of a railyard, rail spurs and wyes, concrete waste loadout facility with a 200 ton track scale, and associated civil upgrades. The civil upgrades consist of a sedimentation basin, ditches, culverts and a new gravel access road connecting to the old north construction access road just north of the Fire Training Facility. See "Site Rail System Improvements Grading and Drainage Package" (attached), Certified for Construction 30 May 1996, for rail location and grading. The most substantial part of the rail improvement work is for the railyard, which will temporarily stores empty and full railcars. The new railyard will be built northeast of the former production area and will consist of a series of 11 parallel tracks, varying in length, for a total of 11,700 lineal feet of storage track. This area is referred to as Areas D north and south in the RAWP for the Soil Remediation Project, Area I, Phase I, see Figure 2-1. Area B southwest lies to the east of Areas D north and south and is also a part of the OU2 project. A total of 23 acres will be stripped to a depth of 6 inches in areas D north and south and B southwest, creating 22,000 cyd of potentially contaminated topsoil material and small quantities of asphalt. This topsoil will be stockpiled as provided in Section 3.0.

Stockpile/Sedimentation Basin

The soil stockpile [Area 1 Phase 1 (West) Remedial Action Project] will be located approximately 300 feet due south of Area B southwest and west of the existing FEMP north access road. The stockpile and its connecting runoff control basin are being designed by SRP personnel and will be constructed by OU1. See the attached Area 1 Phase 1 (West) detail sheets for the stockpile and sedimentation basin layout and design. The stockpile will drain naturally to the south utilizing existing ditches to the east and a berm to the west to catch and divert all runoff to the sedimentation basin. The stockpile will be sprayed by water or a surfactant to control dust emissions during construction. Upon completion, the stockpile will be seeded and mulched for permanent dust suppression.

The sedimentation basin is directly south of the proposed west impacted soil stockpile.

The sedimentation basin was designed to retain runoff from a 10 year/24 hour storm (the

same criteria as the site Stormwater Retention Basin (SWRB)). The basin will receive flows initially from the above stockpile. Later, when the Soil Remediation Project constructs the East Impacted Soil Stockpile (just due east of the west stockpile), the basin will receive flows from both stockpiles. The Area 1 Phase 1 (East) Remedial Action Project drawings are not attached, however they will be submitted as part of the SRP RAWP, Area I, Phase I. The basin has interior slopes of 2.5:1, exterior slopes of 2:1, and an average depth of 4 feet. The basin will have an 18 inch corrugated metal riser pipe leading into a 12 inch, 0.6 % slope outlet pipe. The outlet pipe runs a distance of 170 lineal feet to existing Stormwater Manhole 224. Manhole 224 is part of the site's stormwater collection system that drains to the SWRB and eventually makes its way to the Advanced Waste Water Treatment Facility before being discharged. An orifice will restrict flow to allow a 10 year storm to discharge over a period of 48 hours so as not to have a significant impact on the existing SWRB.

OU1 Plant Facility

The plant facility will cover open space between the road on the east side of Waste Pits 2, 4, and 6, the Biodenitrification Surge Lagoon, and rail spur 12. The facility will extend across the eastern limit of the OU1 area and into Operable Unit 5 (OU5). General improvements to this area include clearing, grading, construction of two new rail spurs, concrete loadout area with rail track scale, a stormwater management pond with a subsurface drainage system, and fire water line installations.

3.0 REMEDIAL ACTIVITIES

Prior to stripping of the railyard, the above mentioned sedimentation basin and stockpile will be constructed. The stockpile is necessary to contain potentially contaminated material from Areas D and B southwest. During stockpile and its related stormwater collection basin construction, railyard construction will begin with the excavation of the Main Ditch, this will provide fill material for the OU1 Plant facility. Next the Area D sedimentation basin will be constructed with its 48 inch outlet culvert, then the excavation of the basin inlet South Ditch. The South Ditch must be constructed prior to any scraping of the Areas D and B southwest such that sediment loads are collected into the sedimentation basin.



Sampling and analysis during the OU5 Remedial Investigation provided total uranium concentrations from 0-6", 6-12", and 12-18" in locations which included the north railyard area. The attached drawing, Site Rail Improvements - Contaminated Points in 6" Topsoil Removal Area, shows the north railyard and surrounding area with the only two data points in that area that exceeded the OSDF WAC - one data point outside the scope of north railyard activities and one data point in the north railyard area of excavation. As indicated in the attached drawing, this data point is located in an area designated for segregation as a result of site radiological control requirements. Prior to stripping the top 6 inches, this area will be removed. The soil and any contaminated asphalt from the adjacent road will be managed (as indicated in the Site Improvement Plan and the Site Preparation Activities letter) within the OU1 boundary with other soil and debris generated from OU1 site preparation activities that are destined for eventual treatment in the OU1 remediation facility. Once this area is removed, stripping of the top 6 inches will proceed. SRP personnel will follow the scraping of these areas with radiological testing. Excavation and grading of the rail areas will proceed next with excess soil (28,000 cyd total) being transported to the OU1 Plant facility. Construction of the rails, ties, and loadout facility with track scale will finish preparatory and upgrade activities.

4.0 SCHEDULE

This amendment is being submitted for EPA and Ohio EPA review and concurrence. DOE respectfully requests an expedited review by July 3, 1996. This would provide enough time to begin preparation for the stockpile area, installation of stormwater management controls, and would allow for maximum utilization of construction equipment.

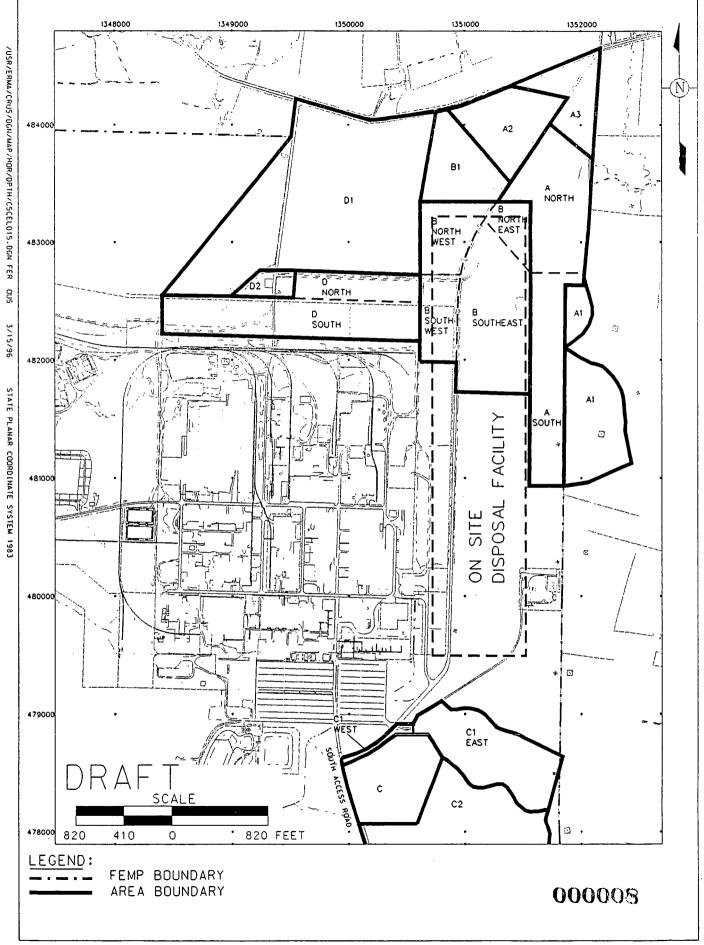
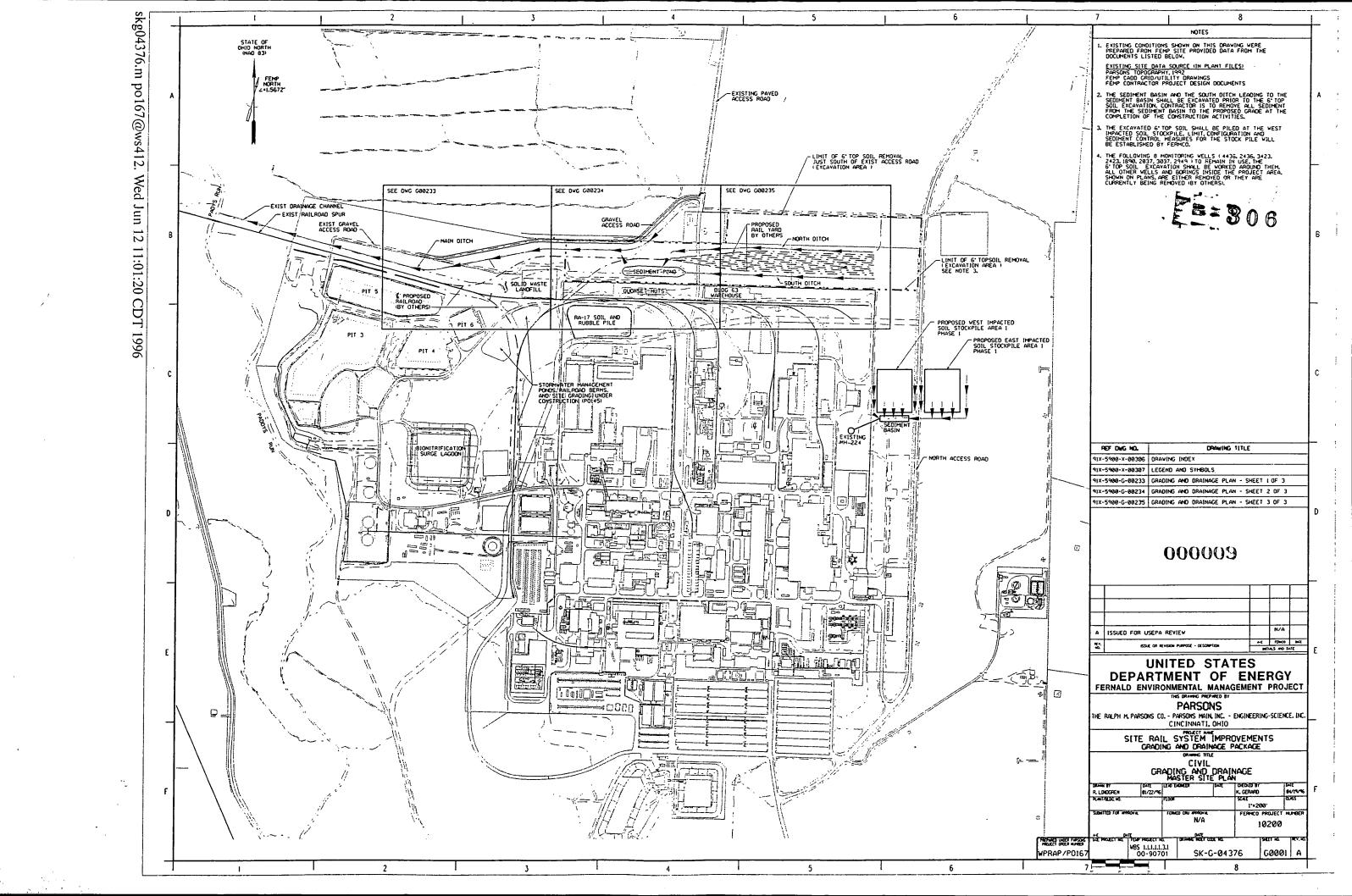
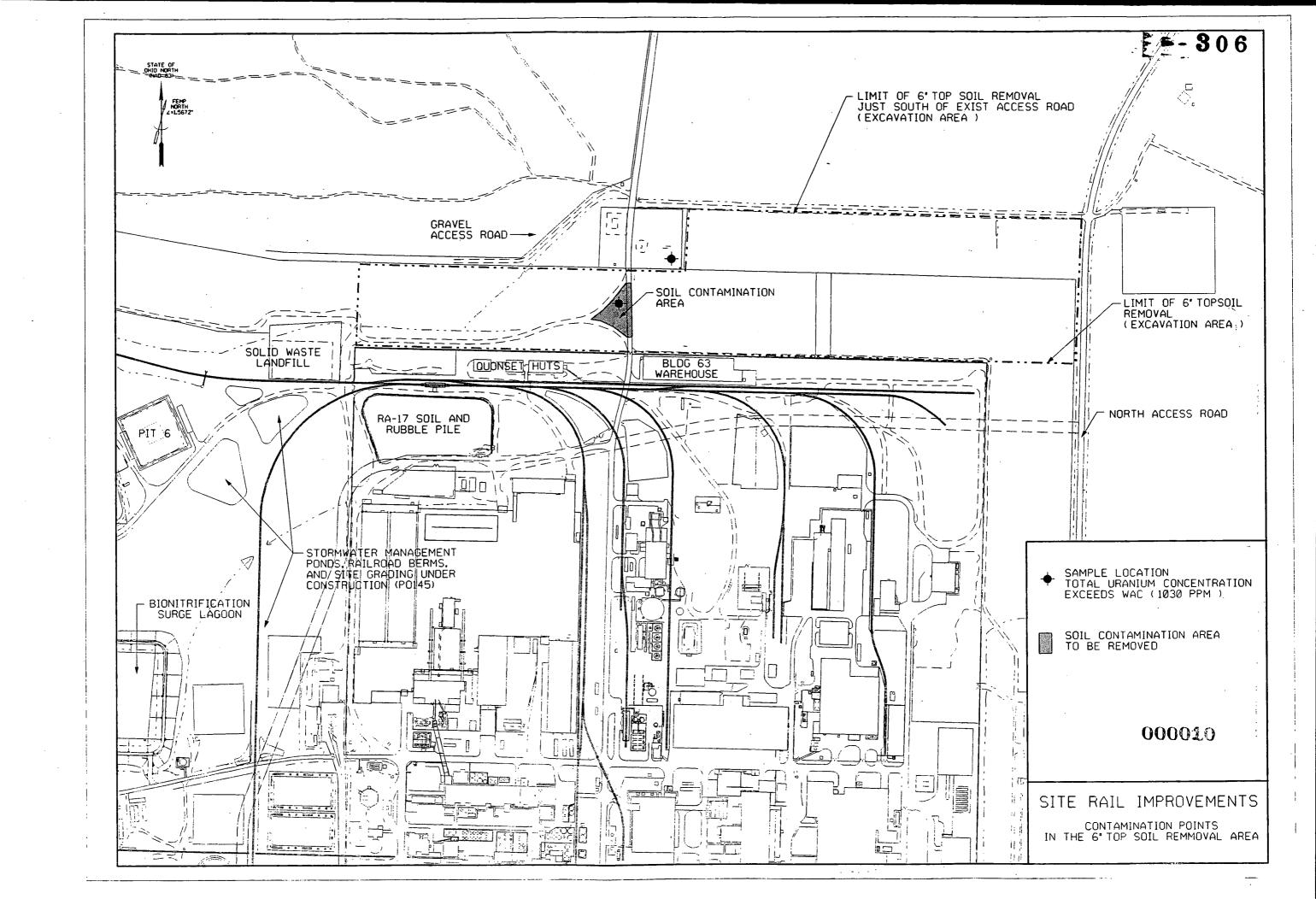
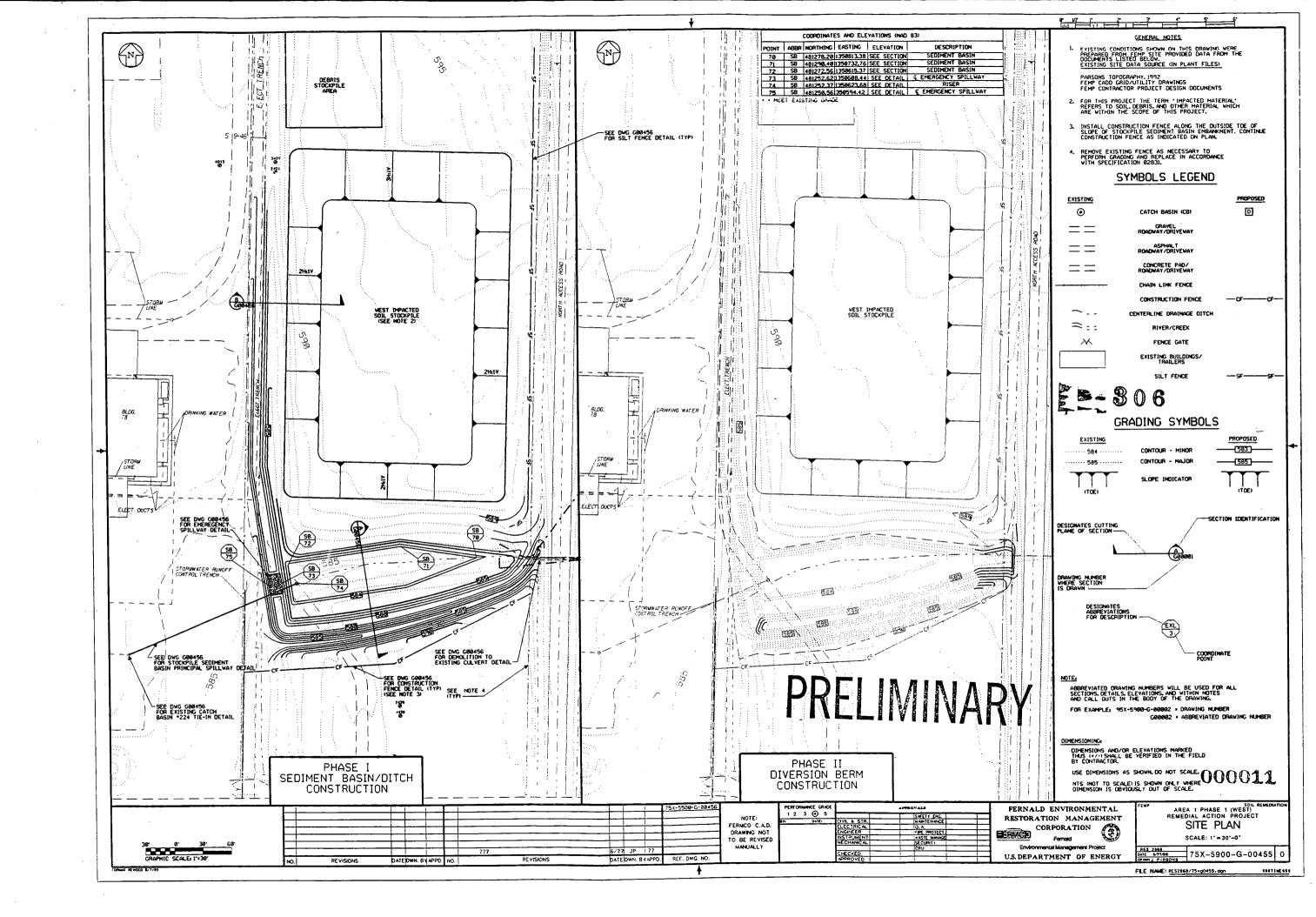
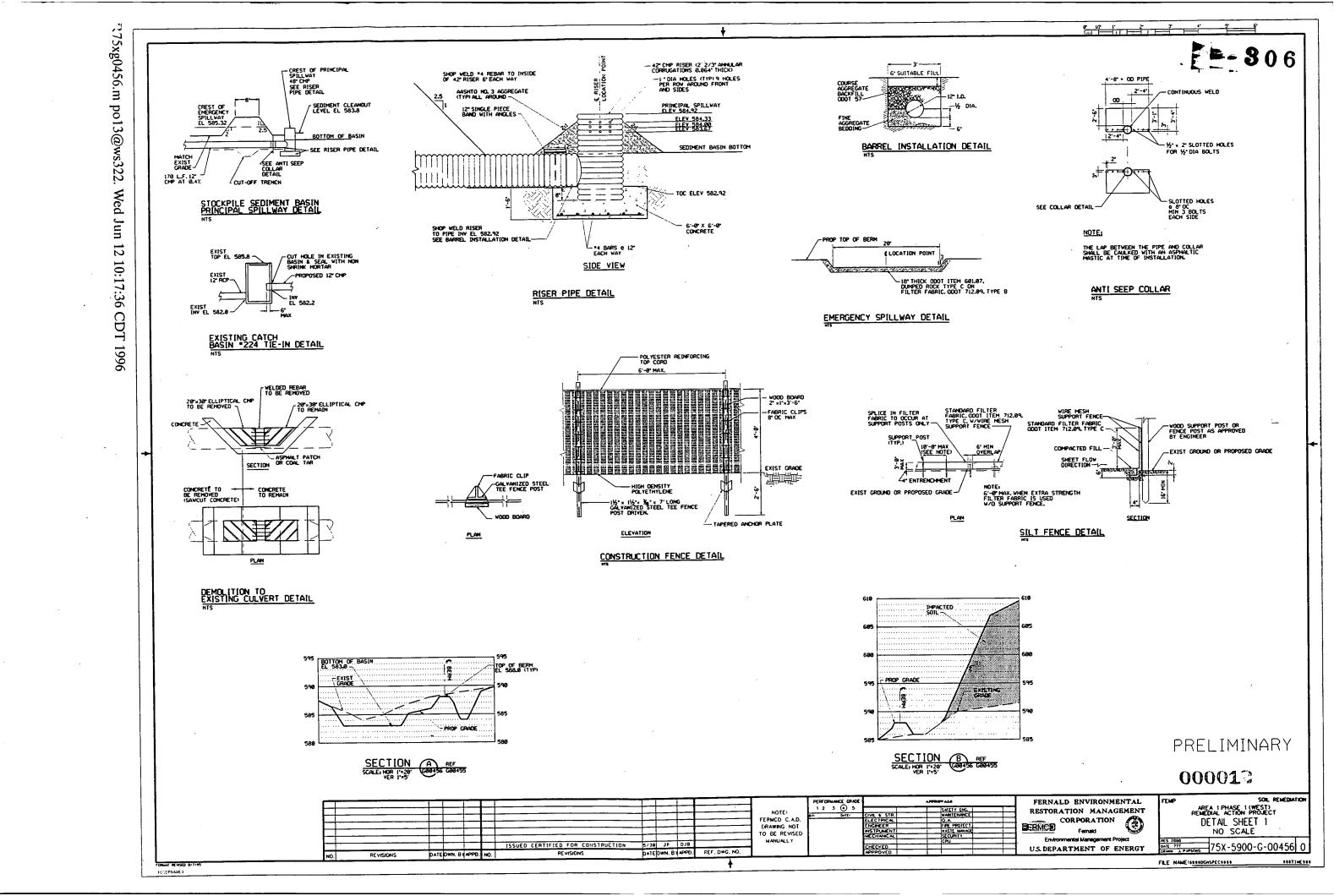


FIGURE 2-1. DEPICTION OF AREA 1 PHASE 1 ACTIVITIES





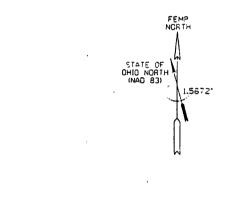




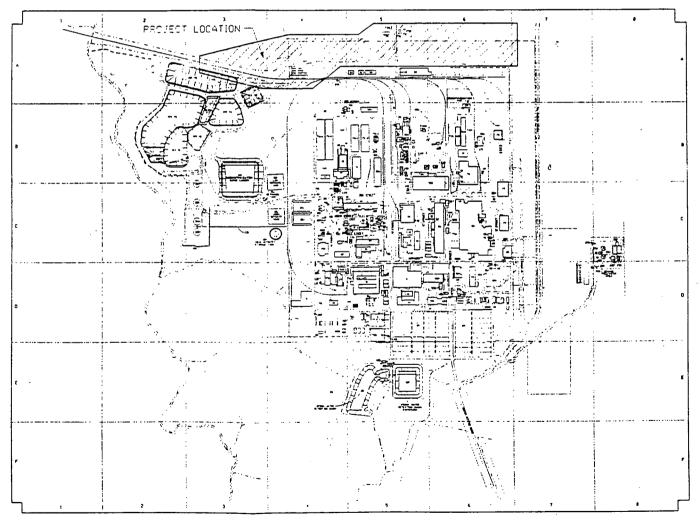
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UNITED STATES DEPARTMENT OF ENERGY FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

SITE RAIL SYSTEM IMPROVEMENTS
GRADING AND DRAINAGE PACKAGE
PROJECT ORDER 167







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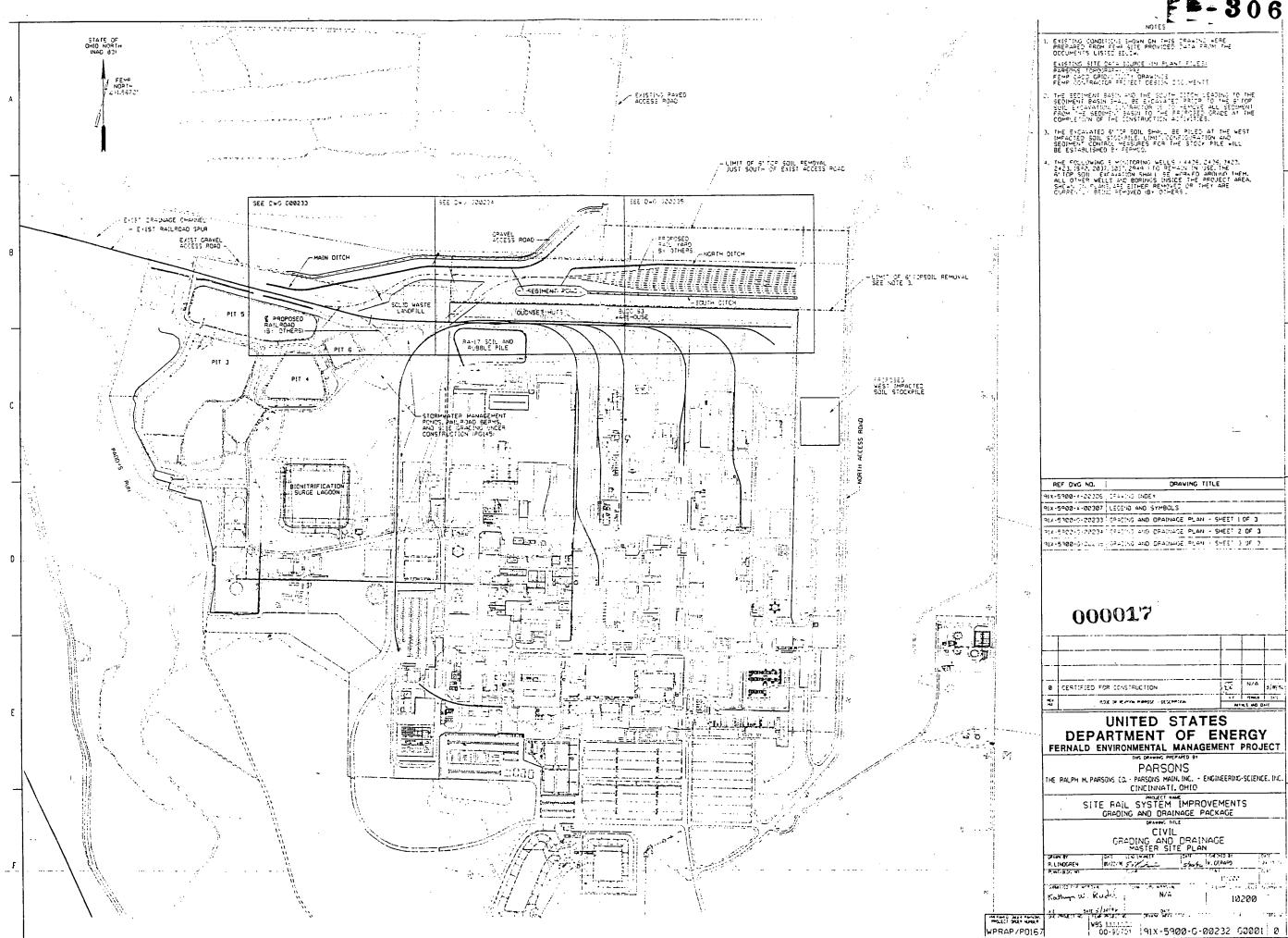
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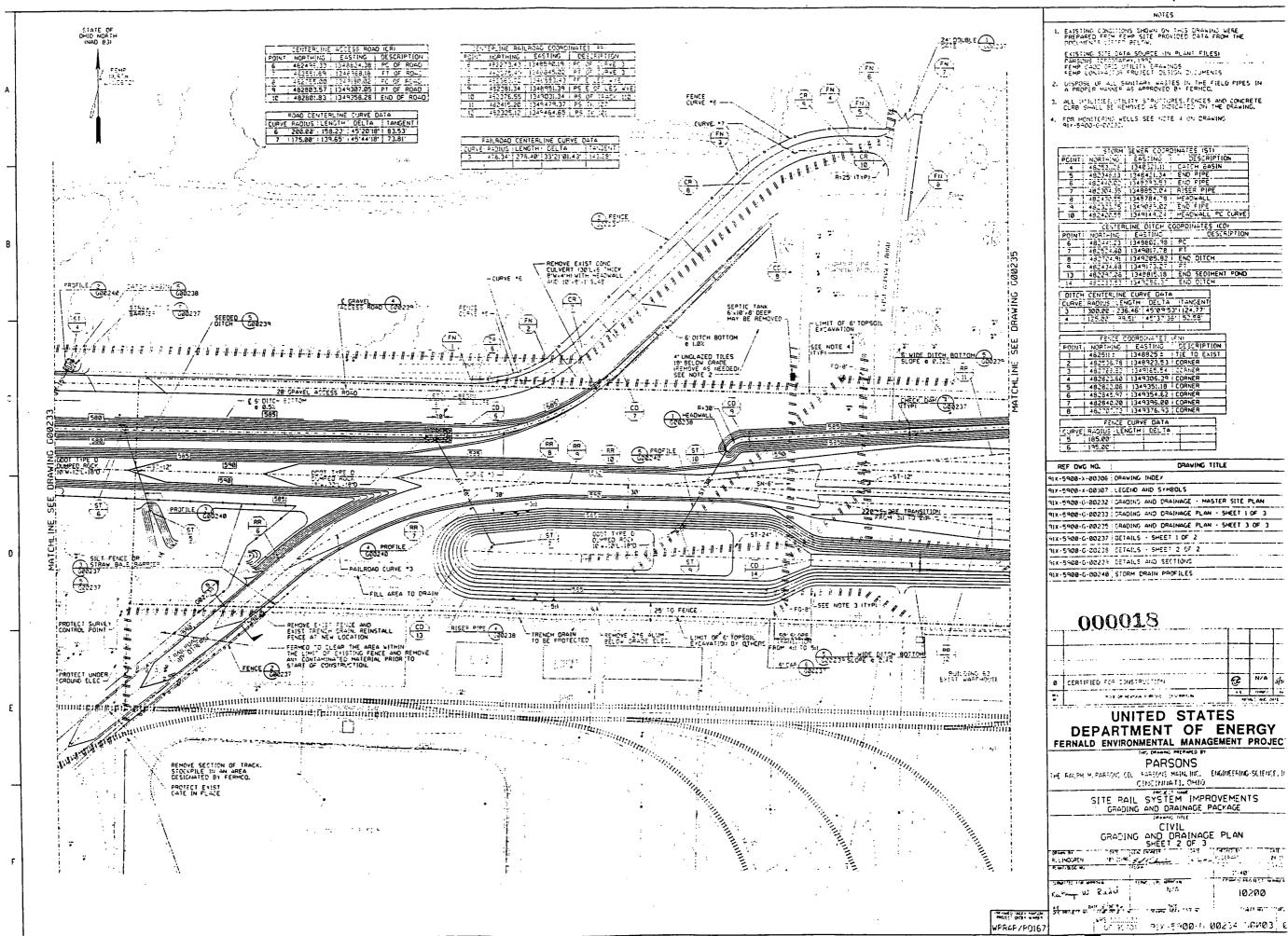
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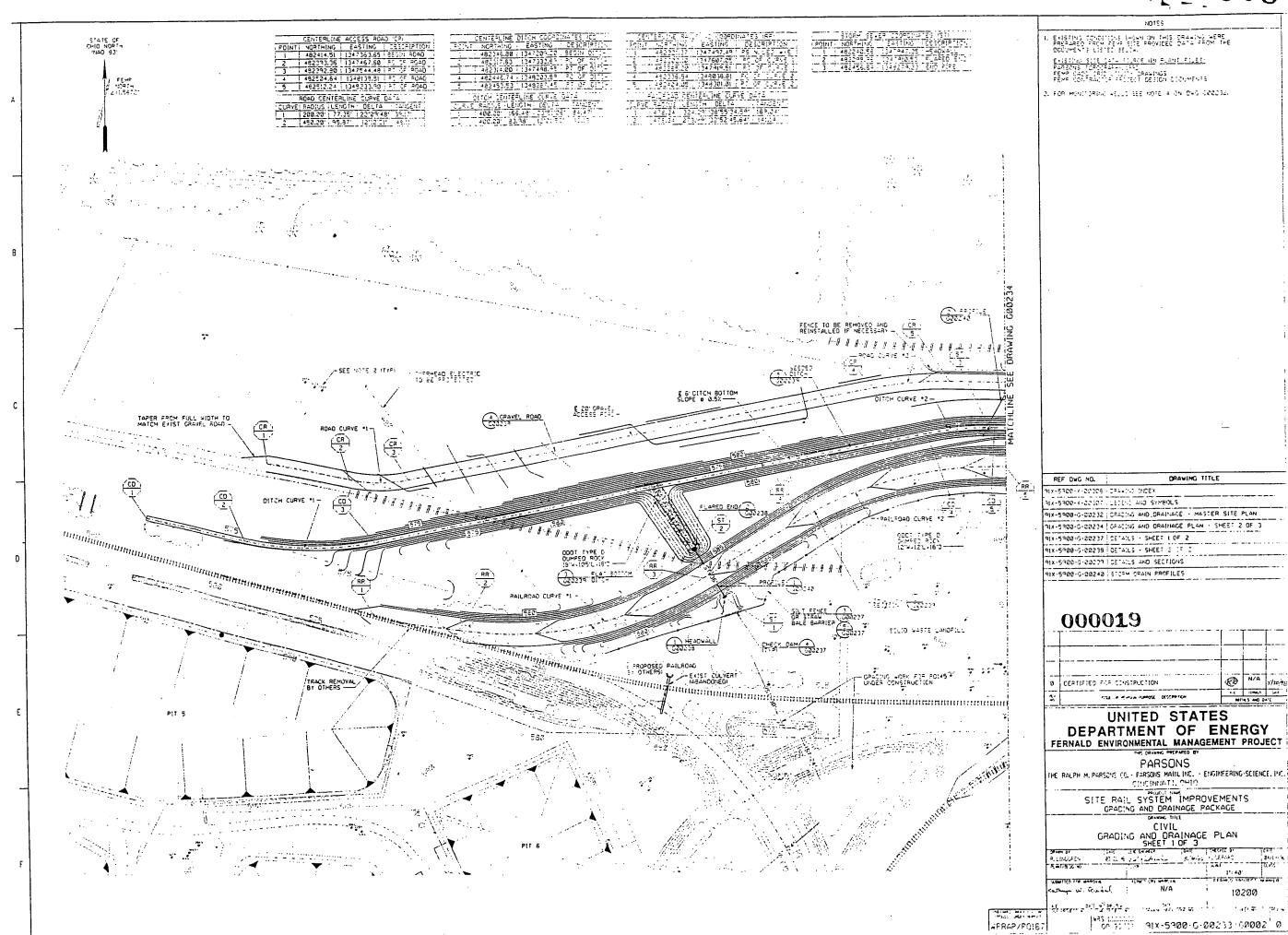
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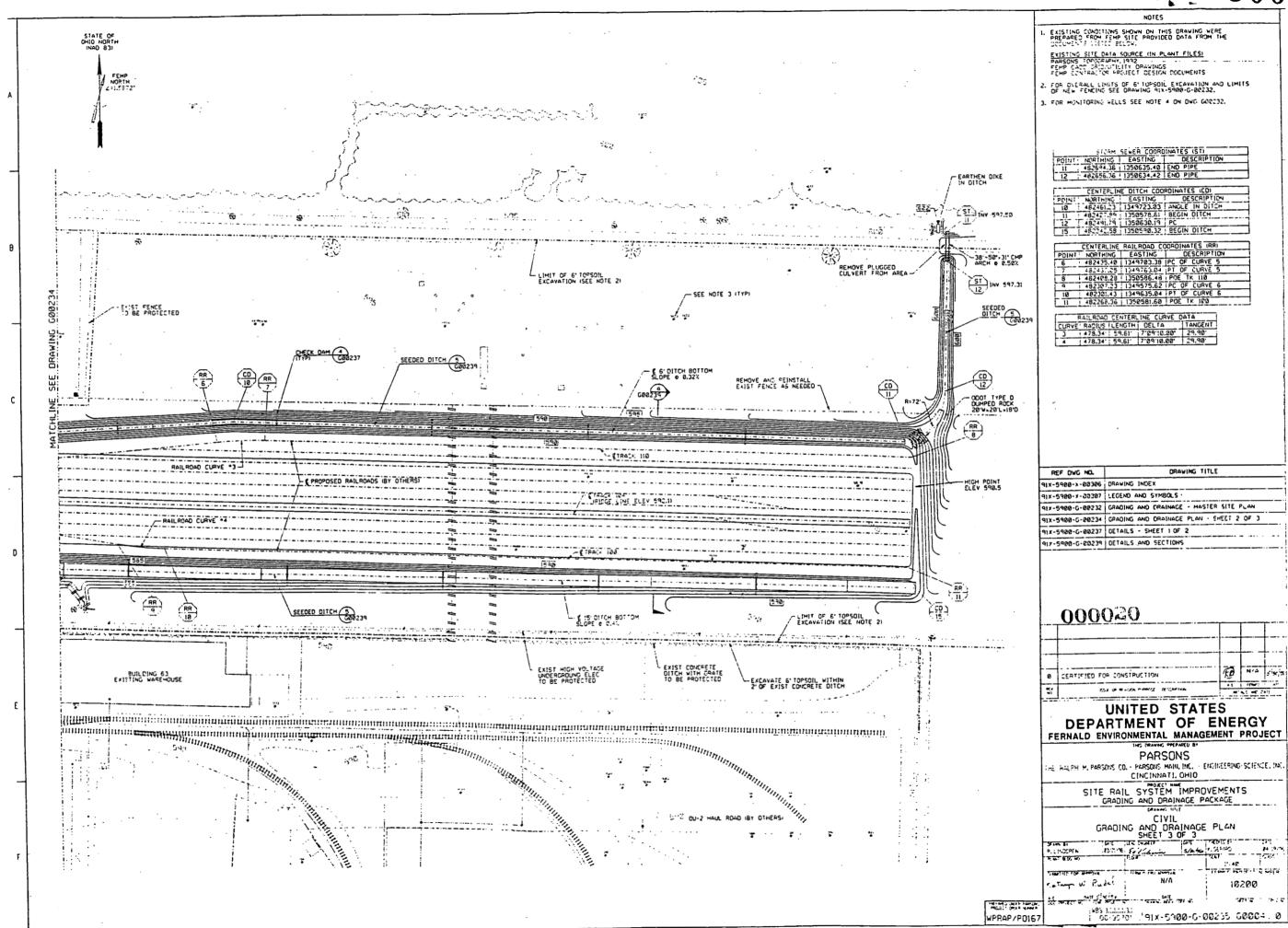
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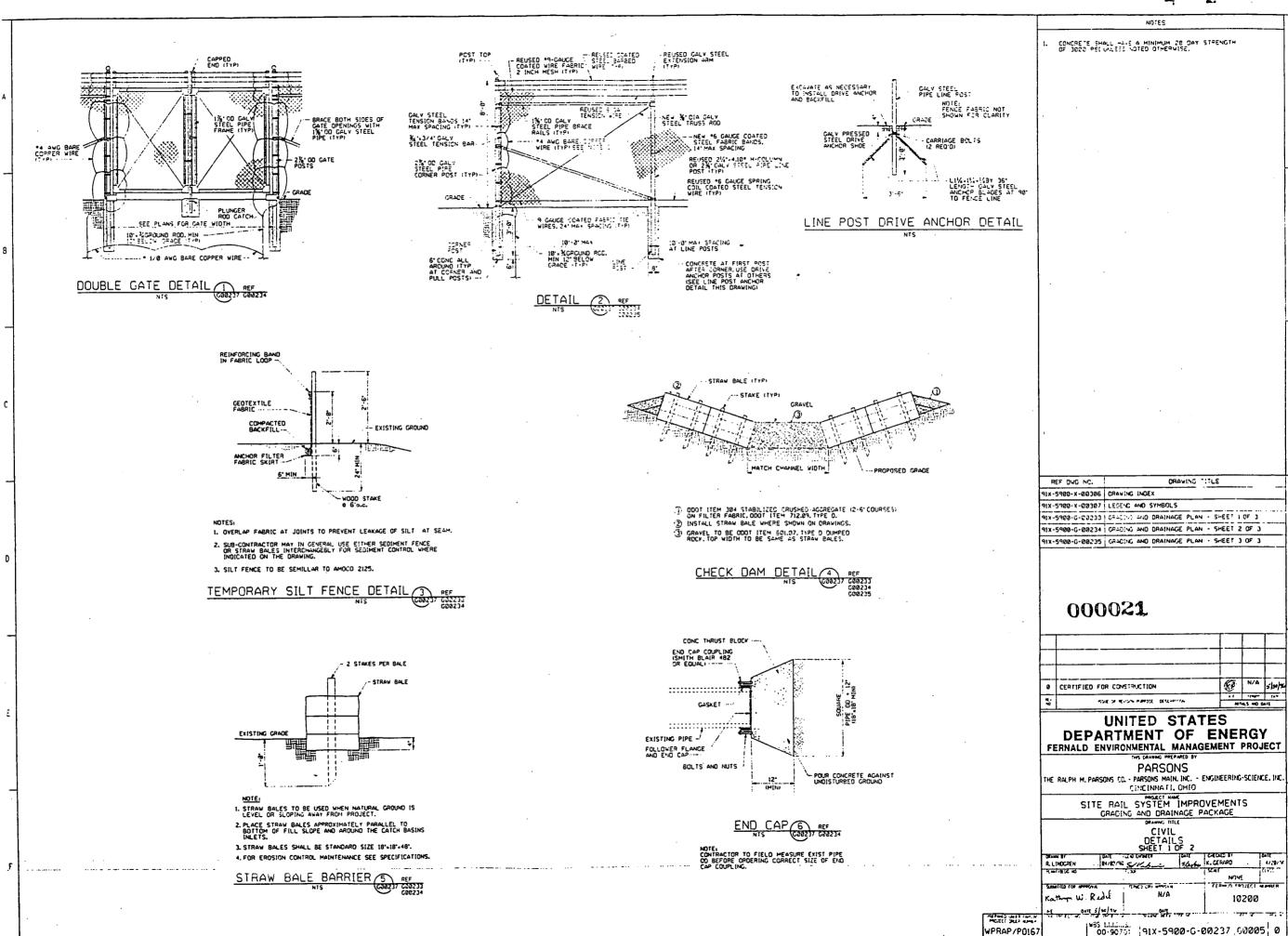
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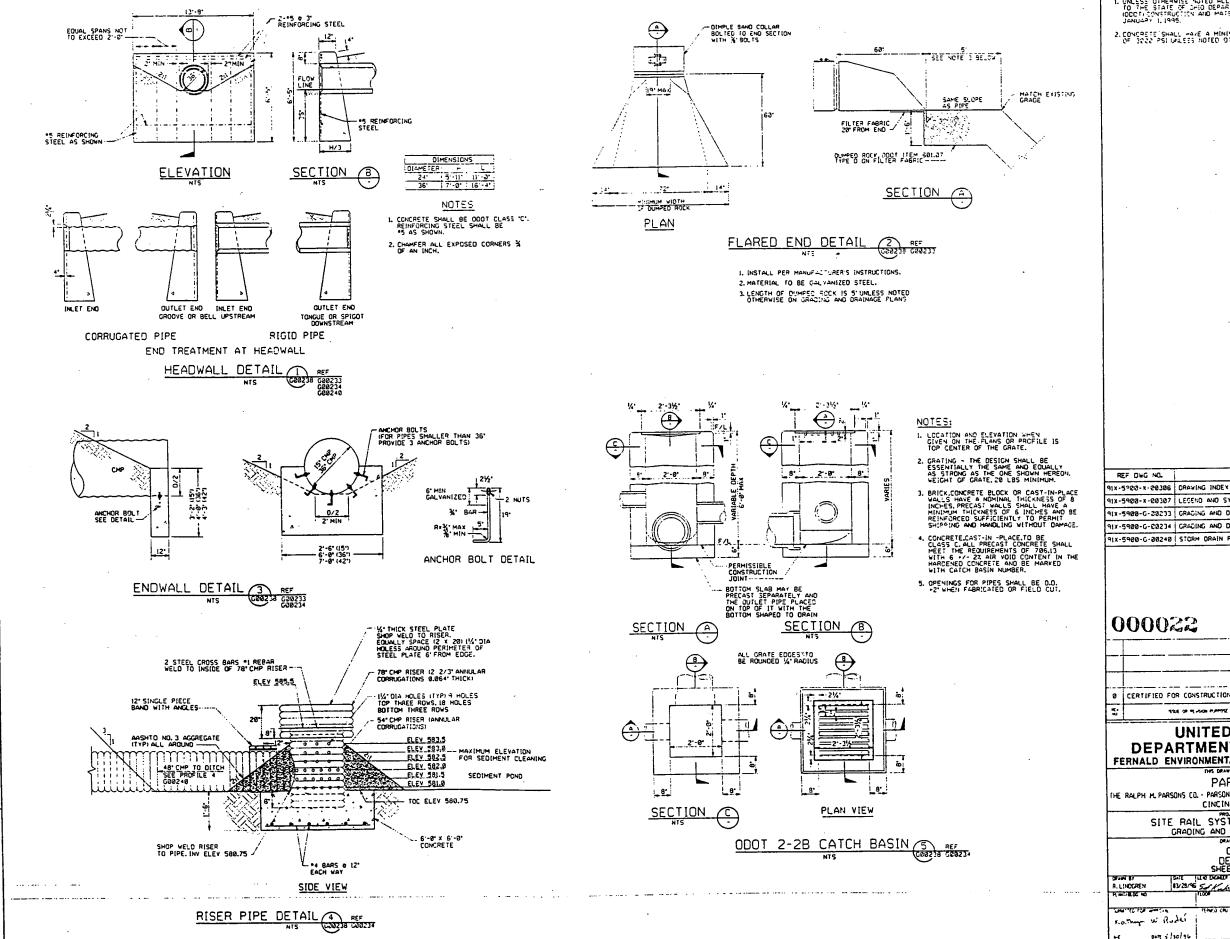












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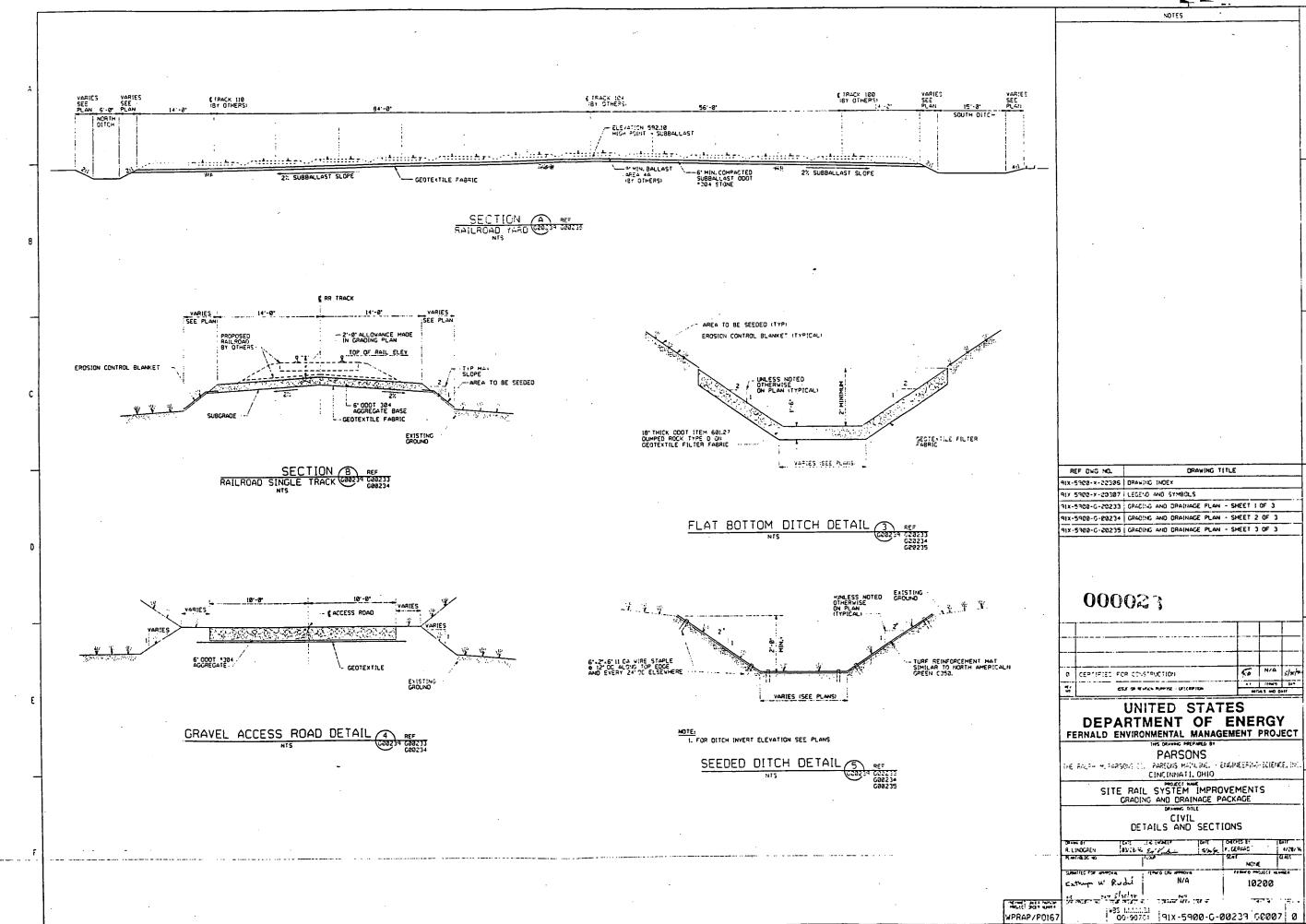
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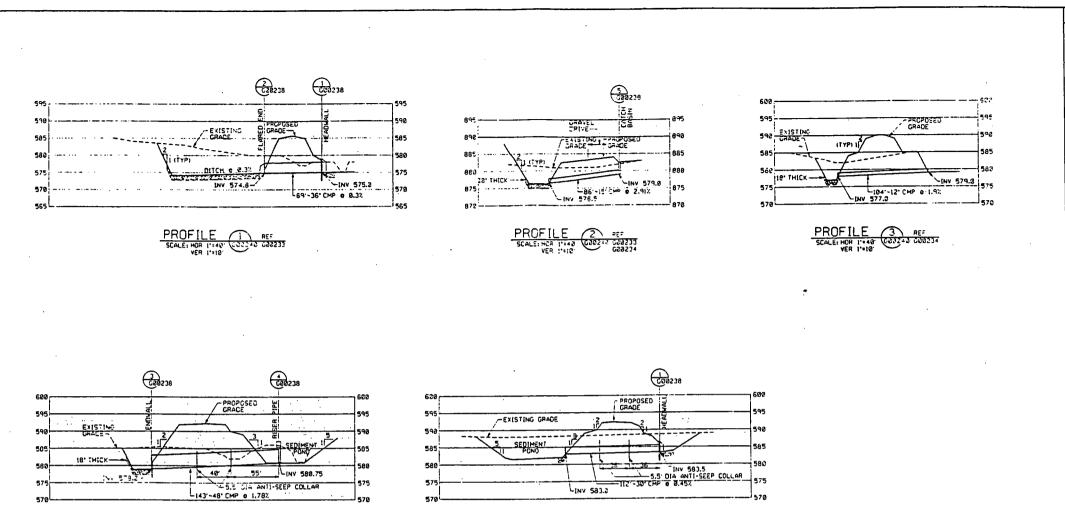
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91x-5900-x-20307	LECEND AND SYMBOLE
91X-5900-G-20233	GRACING AND DRAINAGE PLAN - SHEET 1 OF 3
91x-5900-G-00234	CHACING AND OPAINACE PLAN - SHEET 2 OF 3
91x-5908-G-28238	DETAILS - SHEET 2 OF 2

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UNITED STATES DEPARTMENT OF ENERGY FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWNIC PREPARED BY

PARSONS
THE RALPH M. PARSONS CO. - PARSONS MAILLING. - ENGINEERING-SCIENCE, INC.
CINCINNA TI., OHIO

SITE RAIL SYSTEM IMPROVEMENTS
CRADING AND DRAINAGE PACKAGE

DRAWN FILE
CIVIL
STORM DRAIN PROFILES

Kathey. W. Rudi

A.E. DATE SINCE THE PROPERTY OF THE PARTY OF PROTE OFF SHORT Wes 12112222 00-90-01 917 -WPRAP/P0167